

WHAT IS CLAIMED IS:

1. A developing unit of a wet electrophotographic printer, comprising:
 - a photoconductive drum;
 - a developing roller for attaching a developer onto the photoconductive drum;
 - a cartridge for storing a developer therein;
 - a developer guide disposed at a predetermined distance away from an inner wall of the cartridge, and having a developer supplying path defined therein to guide the developer in the cartridge to the developing roller; and
 - a developer pump disposed in the cartridge to pump up the developer in the cartridge toward the developing roller.
2. The developing unit of claim 1, further comprising a deposit roller for transferring a developer onto the developing roller, wherein a deposit nip is defined between the developing roller and the deposit roller.
3. The developing unit of claim 2, wherein the developer guide comprises:
 - a first partition contacting with an upper wall thereof with the deposit roller; and
 - a second partition disposed near to the inner wall of the cartridge to form the

developer supplying path in cooperation with the first partition,

the upper part of the first partition is positioned lower than the deposit nip,

the upper part of the second partition is positioned higher than the deposit nip, and

the developer which flows along the developer supplying path is moved in part to the deposit nip and overflowed in part to the upper part of the second partition to be moved to a developer collecting path defined between the second partition and the inner wall of the cartridge.

4. The developing unit of claim 3, further comprising connecting means for connecting the first partition and the second partition which are integrally mounted in the cartridge, respectively.

5. The developing unit of claim 3, wherein the first partition and the second partition are separately mounted in the cartridge.

6. The developing unit of claim 1, wherein the developer pump includes a pumping roller which is made of a sponge material and mounted to contact with the lower part of the developer guide.

7. The developing unit of claim 3, wherein the developer pump includes a pumping roller which is made of a sponge material and mounted to contact with lower parts of the first partition and the second partition.

8. The developing unit of claim 7, wherein the pumping roller contacts with a higher pressure with the lower part of the second partition than with the lower part of the first partition, and rotates in a direction from the first partition to the second partition.

9. The developing unit of claim 8, wherein the lower part of the first partition is positioned higher than the lower part of the second partition.

10. The developing unit of claim 1, further comprising a cleaning roller for removing the developer remaining on the developing roller in contact with the developing roller, wherein the developer which is removed from the developing roller by the cleaning roller is moved into a space defined between the inner wall of the cartridge and the developer guide.

11. A developer guide for a developing unit of a wet electrophotographic printer having a photoconductive drum, a developing roller for attaching a developer onto the photoconductive drum, and a cartridge for storing the developer therein, the developer guide comprising:

a first partition contacting with an upper wall thereof with a deposit roller; and

a second partition disposed near to the inner wall of the cartridge to form a developer supplying path in cooperation with the first partition.

12. The developer guide of claim 11, further comprising a deposit nip defined between the developing roller and the deposit roller.

13. The developer guide of claim 12, wherein the upper part of the first partition is positioned lower than the deposit nip.

14. The developer guide of claim 12, wherein the upper part of the second partition is positioned higher than the deposit nip.

15. The developer guide of claim 12, wherein the developer which flows along the developer supplying path is moved in part to the deposit nip and overflowed in part to the upper part of the second partition to be moved to a developer collecting path defined between the second partition and the inner wall of the cartridge.

16. The developer guide of claim 11, wherein the developer guide is disposed at a predetermined distance away from an inner wall of the cartridge.

17. The developer guide of claim 11, further comprising connecting means for connecting the first partition and the second partition which are integrally mounted in the cartridge, respectively.

18. The developer unit of claim 11, wherein the first partition and the second partition are separately mounted in the cartridge.

19. The developer guide of claim 11, further comprising a developer pump disposed in the cartridge to pump up the developer in the cartridge toward the developing roller.

20. The developer guide of claim 19, wherein the developer pump includes a pumping roller which is made of a sponge material and mounted to contact with the lower port of the developer guide.

21. The developer guide of claim 20, wherein the pumping roller is mounted to contact with lower parts of the first partition and the second partition.

22. The developer guide of claim 21, wherein the pumping roller contacts with a higher pressure with the lower part of the second partition than with the lower part of the first partition, and rotates in a direction from the first partition to the second partition.

23. The developer guide of claim 11, wherein the lower part of the first partition is positioned higher than the lower part of the second partition.